● PRINTER RUSH ● (PTO ASSISTANCE)

Application: 1075789	Examiner : 1	GAU:	2863		
From: J. Blac	M Location: (1	IDC FMF FDC Date:	9120105		
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REV 10/04

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To: U.S. Patent Office - Publishing Division	
Fax No.: 703-746-6830	
	_
From: John W. Wustenberg	
Subject: Notice to file corrected application papers.	
Number of Pages (Including Cover):5	
Date Sent: December 16, 2005	
If problems with transmission call Chasidy Smith @580-251-4217	

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LEGAL

Practitioner's Docket No. 2003-IP-011909U1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Jason D. Bivens, et al.

Application No.: 10/757,860 Group No. 2863

Filed: 1/15/2004 Examiner:

For SYSTEM AND METHOD FOR MEASURING MATERIAL ADDED TO A VESSEL

UNDER A VACUUM

Patent No.*: issued:

*NOTE: Insert name(s) of all inventor(s) and also title for patent.

Commissioner for Patents P.O. Box 1460 Alexandria, VA 22313-1450

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Date Mailed 10/04/05

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Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given 30 days from the mail date of this Notice within which to correct the informalities indicated below. A failure to reply will result in the application being ABANDONED. This period for reply is NOT extendable under 37 CFR 1.136 (a) or (b).

• Second inventors name is not printed on oath/declaration.

APPLICANT MUST SUPPLY MISSING INFORMATION WITHIN 30 DAYS OF THE MAIL DATE OF THIS NOTICE.

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PTO/SB/01 (08-03) Approved for use through 07/31/2006, OM8 0651-0032

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(37 CF	R 1.63)	[7	Application N	lumber			
Declaration	Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)		Filing Date				
Submitted OR With Initial			Art Unit				
Filing			Examiner Na	me			
I hereby declare that:							
Each inventor's residence, mai	ling address, ar	nd citizenship are a	s stated be	low next to t	heir name.		
I believe the inventor(s) named	I halow to bo th	e original and first i	inventor(s)	of the subject	ct matter wh	ich is claim	ed and for
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Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.							
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This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including pathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Tredemark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS U.S. Patent and Tredemark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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NAME OF SOLE OR FIRST IN	IVENTOR:	Ар	etition h	as been fi	led for th	is unsign	ned inventor
Given Name (first and middle [if any]) ason D.				Famil	Family Name or Surname Bivens		
Inventor's Signature Juson							Date 1-15-04
Residence: City Duncan	State Country U.S.		у	Citizer U.S.		nship	
Mailing Address 2315 Cherrybrook				,		•	
City	State		ZIP			Country	
Duncan	ок		73533			U.S.	
NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor							
Given Name				Family			
(first and middle [if any]) John G.			or Sum	Sumame Heaton			
Inventor's Signature	. Heaton						Date /~/5-04
Residence: City/	State		Country		Citizer		iship
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Mailing Address 3010 Stagesland Road							
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Additional inventors or a legal representative are being named on the supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.							

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FPG between root cause C_i and alarm Λ_i , when "length" of arc (V_1, V_1) is defined by

Length $(V_1, V_2) = -\ln p(V_1, V_2)$.

Denote by $d(C_i, A_j)$ (the distance from root cause C_i to alarm A_j) the length of this shortest path between C_i and A_j .

For given root cause C_i and input set of alarms $X = \{A_1, A_2, ..., A_n\}$, the Forward Traverse finds value:

$$D(C_i, Y_i) = \sum_{i : A_i \in Y_i} d(C_i, A_i)$$

of the sum of the distances from root cause C_i to all $y = y_i$ input alarms lying in the prototype, and

10 the average distance

$$\overline{d}(C_i,Y_i) = D(C_i,Y_i)/y_i$$

from root cause C, to incoming alarms lying in the prototype.

In the case of compound cause C composed of two simple root cause C_{ij} and C_{ij} , distance $d(C,A_j)$ from root cause C to alarm A_j is defined (during the Forward Traverse) by

$$d(C,A_1) = \min(d(C_{i_1},A_1),d(C_{i_2},A_1)),$$

and then the value

$$D(C,Y) = \sum_{i:A_i \in Y} d(C,A_i).$$

where $Y - Y_{ii} \cup Y_{i2}$, is computed based on distances $d(C, A_j)$.

Denote by q(A) the value of "preference" of slarm Λ (see Alarm Table in 3.1.),

$$Q(Y_i) = \sum_{i:A_i \in Y_i} q(A_i)$$

the value of cumulative preference of incoming alarms lying in prototype Y_i of root cause C_i ,

$$Q(S_i) = \sum_{j: A_i \in X_i} q(A_j)$$

25 the cumulative preference of all (expected) clarms lying in prototype of root cause C_{II} and